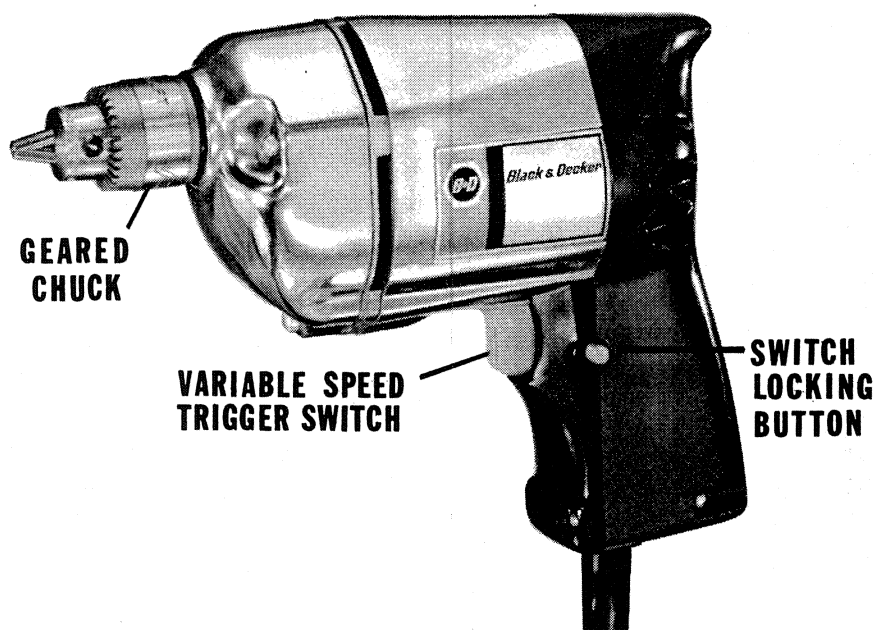




Black & Decker

OWNER'S MANUAL



1/4" DRILL #1015

VARIABLE SPEED SWITCH

0 to 2250 R.P.M. Capacity: 1/4" holes in steel; 1/2" in hardwood. 115 Volts A.C. 2 Amps. 1/7 H.P.

3/8" DRILL #1161

VARIABLE SPEED SWITCH

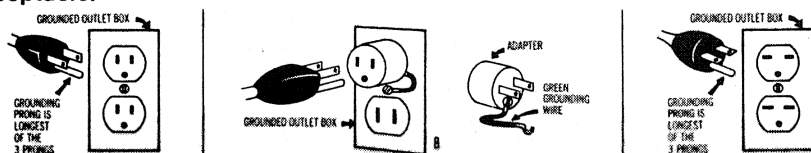
0 to 1000 R.P.M. Capacity: 3/8" holes in steel; 3/4" in hardwood. 115 Volts A.C. 2.2. Amps. 1/7 H.P.

SAFETY RULES FOR POWER TOOLS

1. **KNOW YOUR POWER TOOL** — Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards peculiar to this tool.
2. **GROUND ALL TOOLS — UNLESS DOUBLE-INSULATED.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If adapter is used to accommodate two-prong receptacle, the adapter wire must be attached to a **known ground**. **Never** remove third prong.
3. **KEEP GUARDS IN PLACE** and in working order.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **AVOID DANGEROUS ENVIRONMENT.** Don't use power tool in damp or wet locations. And keep work area well lit.
6. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
7. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place — out of reach of children.
8. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
10. **WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
11. **USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
12. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
13. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
14. **DON'T OVERREACH.** Keep proper footing and balance at all times.
15. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **DISCONNECT TOOLS.** When not in use, before servicing; when changing accessories such as blades, bits, cutters, etc.
17. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
18. **AVOID ACCIDENTAL STARTING.** Don't carry plugged-in tool with finger on switch.

GROUNDING

EVERY ELECTRIC TOOL SHOULD BE GROUNDED while in use to protect the operator against shock. This unit is equipped with approved 3-conductor cord and 3-blade grounding type attachment plug to be used with the proper grounding type receptacle. The green colored conductor in the cord is the grounding wire. Never connect the green wire to a "live" terminal. If your unit requires less than 150 volts, it has a plug that looks like fig. "A". A special grounding adapter (Fig. "B") is available from your dealer to permit using 2-wire receptacle until the correct receptacle is properly installed. The green grounding wire extending from the side of the adapter must be connected to a **PERMANENT GROUND** such as a properly grounded outlet box. If the unit requires from 150 to 250 volts it has a plug like Figure "C". No adapter is available and it should be used in the proper standard matching 3-wire grounding receptacle.



SWITCH

The Variable Speed Trigger Switch permits "FREE HAND" speed control — the farther the trigger is depressed, the higher the R.P.M. of the Drill. A Switch Locking Button permits locking the trigger in the full "ON" position for continuous operation, or when using the Drill in a Vertical Stand. To lock the trigger "ON," depress trigger fully and push in locking button, then gently release trigger. To release locking mechanism, depress trigger fully, then release it.

NOTE: Use lower speeds for STARTING HOLES WITHOUT A CENTER PUNCH, DRILLING IN METAL OR PLASTICS, DRIVING SCREWS, DRILLING CERAMICS, OR MIXING PAINT. Higher speeds are better for DRILLING WOOD AND COMPOSITION BOARDS, AND FOR USING ABRASIVE AND POLISHING ACCESSORIES.

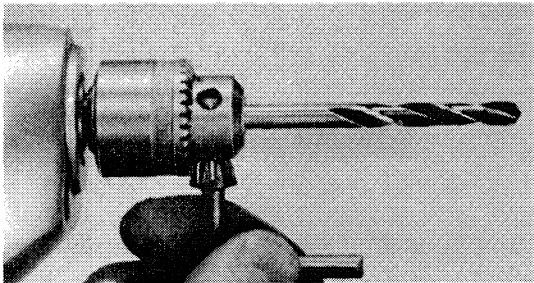
CABLE

The cable is the life-line of your tool. Keep it clean by wiping occasionally to remove any grease or oil. Don't let it become kinked. Avoid dragging it across sharp surfaces. Do not lift the tool by the cable.

When using the tool at a considerable distance from power source, a properly grounded extension cable of adequate size must be used to prevent loss of power and over-heating. Use table at right for 115 Volt tools. For 220 tools, use wire size of $\frac{1}{2}$ the contemplated cable length.

Ext. cable length						
in feet25	50	75	100	150	200
Required wire size						
(A.W.G.) in cable	..18	18	18	18	16	16

DRILLING



INSERTING DRILL BIT IN CHUCK

Turn collar to open chuck jaws. Place bit in chuck so that end rests on chuck bottom. Tighten chuck collar by hand. Place chuck key in each of the three holes, and tighten in clockwise direction. It's important to tighten chuck with all three holes. This is a safety feature that prevents bit slippage and motor damage. To release bit, turn chuck key counter-clockwise in just one hole, then loosen chuck by hand.

STARTING THE HOLE — WITH A VARIABLE SPEED DRILL, using a slow speed will enable you to start the hole accurately in most cases without the need for center punching.

CARE IN DRILLING

Twist drills are brittle and will break if enough bending stress is applied. To avoid stress on the drill bit, try extending your index finger along the side of the drill-housing with your middle finger on the trigger. Remember—guide, the tool, don't force it! Should the tool become overheated, run it with no load. Because of the drill's construction, it will cool faster running than by stopping it.

DRILLING IN METAL

Use a cutting lubricant when drilling metals. The exceptions are iron and brass which should be drilled dry. The cutting lubricants that work best are sulphurized cutting oil or lard oil; bacon grease will also serve the purpose. Aluminum is best drilled with turpentine or kerosene.

DRILLING IN WOOD

Holes in wood can be made with the same twist drills used for metal. These bits may overheat unless pulled out frequently to clear chips from the flutes. Work that is apt to splinter should be backed up with a block of wood. Let up on the pressure just before the tip cuts through, this will give a good clean hole.

TO REMOVE THE CHUCK — Place the chuck key in one of the holes in the chuck. Strike the key sharply with a piece of wood in the direction that the chuck normally rotates. This will loosen the chuck so that it can be unscrewed by hand.

GUARANTEE

Black & Decker will correct, without charge, any defect **AT ANY TIME** which, upon examination at one of our Factory Service Branches, Authorized Service Stations, or Factories, is found to be due to faulty material or workmanship. The guarantee does not apply in cases of misuse or careless handling or where repairs or replacements have been made or attempted by others. Any transportation charges for delivering the unit for examination must be prepaid.

IF THE TOOL WON'T RUN

First, check the outlet by plugging in another tool or lamp. If these don't work, check the service panel for blown fuses. If current is present, check plugs and sockets for tight fits. If there is something wrong with the tool, don't attempt any major repair on your own. Take it or send it to the nearest Service location shown below for repair. A free parts diagram of your B&D tool is available by writing the Black & Decker Factory Service Center nearest you.

FACTORY SALES & SERVICE BRANCHES



	Area Code	Telephone No.		Area Code	Telephone No.
ALABAMA: Birmingham 35233, 1717 Third Ave., South...	205	324-6691	NEW MEXICO: Albuquerque 87110, 4700 Lomas Blvd., N.E.	505	265-6401
ARIZONA: Phoenix 85004, 537 E. McDowell Rd.	602	AL 8-1332	NEW YORK: Buffalo 14209, 881 W. Delevan Ave.	716	TT 4-6220
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			WISCONSIN: Milwaukee 53213, 6301 Blue Mound Road	414	GR 6-7800

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